

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

I W R for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed

OW

WW

TA

GW

OS

PA

Location Inspected

Bond released

State of Fee Land

LOGS FILED

Driller's Log

Electric Logs (No.)

E

I

E-I

GR

GR-N

Micro

5-9-62, as of this date, this well was completed as a water injection well. Started injecting on April, 1962

(SUBMIT IN TRIPLICATE)

Indian Agency Window Rock

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal

Lease No. 14-20-0609-6509

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

December 1, 1961

Well No. 2-Navajo is located 820 ft. from N line and 820 ft. from W line of sec. 2

SE NW NW 41 S. 24 E. S.L.M.
($\frac{1}{4}$ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Artoth McElmo Creek San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4668.2 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Operator proposes to rotary drill a 17 $\frac{1}{4}$ " hole to approximately 100', set 133/8" 48# conductor pipe, cementing with approximately 125 sacks of cement; drill an 11" hole to approximately 1400' and set 85/8", 24# surface pipe, cementing with approximately 850 sacks of cement, allow 24 hours for cement to set and test for water shut-off; re-commence drilling a 77/8" hole to approximately 5700', or through all the possible Desert Creek producing zones and if commercial production is indicated by log analysis, set 5 $\frac{1}{2}$ ", J-55, 15.5# casing at total depth, cementing with approximately 125 sacks of cement + 2% gel, and attempt completion.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Wilshire Oil Company of Texas

Address 300 Fillmore Street

Denver, Colo.

By Don H. Ford
Agent

Title _____

COMPANY WILSHIRE OIL COMPANY OF TEXAS

Well Name & No. _____

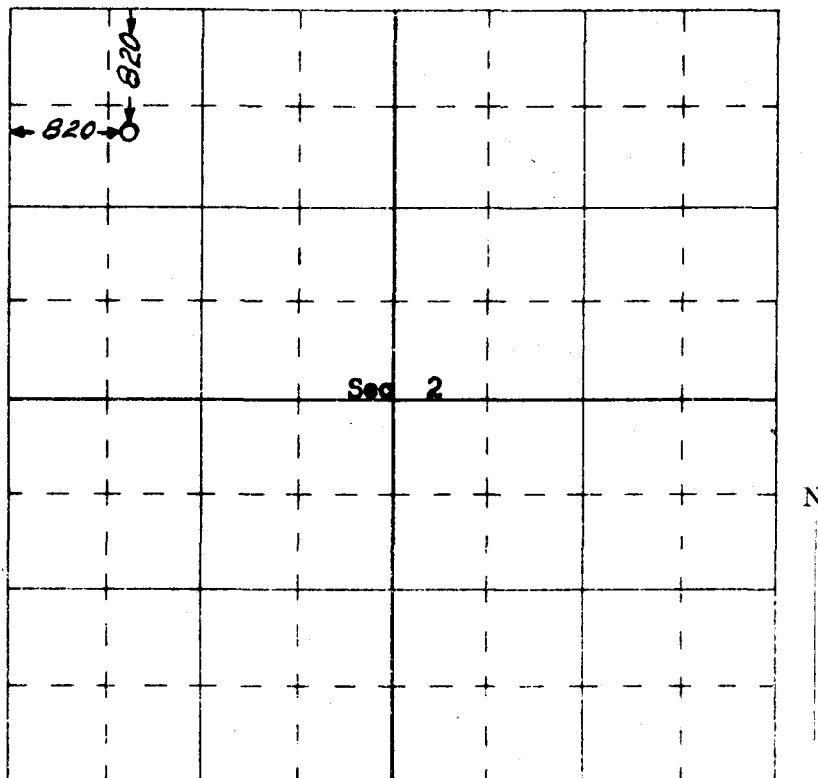
Lease No. _____

Location 820' FROM THE WEST LINE & 820' FROM THE NORTH LINE

Being in SE NW NW

Sec. 2, T41 S. R24 E. S.L.M., San Juan County, Utah

Ground Elevation 4468.2 ungraded ground



Scale — 4 inches equals 1 mile

Surveyed 19 July, 19 61

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

James P. Leese

Registered Land Surveyor.

James P. Leese

Utah Reg. No. 1472

SAN JUAN ENGINEERING CO., FARMINGTON, NEW MEXICO



Farmington, N. M.
2802 East 20th
December 4, 1961

Utah Oil and Gas Conservation
Commission
310 Newhouse Building
10 Exchange Place
Salt Lake City, Utah

Gentlemen:

We are enclosing herewith two copies, with
Survey plats attached, of Intention to Drill
forms on

Well No. 2-Navajo "C" - Sec. 2-41S-24E
San Juan County, Utah.

Very truly yours,

Don H. Ford

Don H. Ford, Agent
for Wilshire Oil Company
of Texas

zp
encl

December 5, 1961

Wilshire Oil Company of Texas
300 Fillmore Street
Denver, Colorado

Attn: Don H. Ford, Agent

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. 2-Navajo "C", which is to be located 820 feet from the north line and 820 feet from the west line of Section 2, Township 41 South, Range 24 East, S1EM, San Juan County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Please have the enclosed "Minimum Safety Requirements" notice posted in a conspicuous place on the drilling location.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT,
EXECUTIVE DIRECTOR

CBF:avg
Enclosure

cc: P. T. McGrath, Dist. Eng.
U. S. Geological Survey

H. L. Coonts - OGCC, Moab

Budget Bureau No. 43-R714.4
Approval expires 12-31-60.

ALLOTTEE _____
TRUCK Nava Jo
LEASE NO. 14-20-0603-6509

State Utah County San Juan Field McElmo Creek
The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 19 61,
Agent's address 300 Fillmore Street Company Wilshire Oil Company of Texas
Denver 6, Colorado Signed K. J. Austin
Phone 355-1621 Agent's title Production Superintendent

Agent's title <u>Production Superintendent</u>										
SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (in thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause, date and result of test for gasoline content of gas)
SE NW 2	41S	24E	1-C	25	2452	43	6,495	None	None	Drilling at 4885'
NW NW 2	41S	24E	2-C							

NOTE.—There were 2487 runs or sales of oil; 4535 M. cu. ft. of gas sold;
No runs or sales of gasoline during the month.

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

WILSHIRE OIL COMPANY OF TEXAS

300 FILLMORE STREET

DENVER 6, COLORADO

January 12, 1962

Utah Oil and Gas Conservation Commission
310 Newhouse Building
Salt Lake City 14, Utah

Gentlemen:

Re: Wilshire Oil Company of Texas
Navajo "C" #2 Well
McElmo Creek Field
San Juan County, Utah

Enclosed please find one copy each of Induction-Electrical
Log and Gamma Ray-Neutron Log for the subject well.

Very truly yours,

WILSHIRE OIL COMPANY OF TEXAS

H. W. Kugler
Geological Engineer

HWK:jd

Encls.

128

Budget Bureau No. 12-11-1
Approval expires 12-31-61

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

ALLOTTEE _____
TRIBE Navajo
LEASE NO. 14-20-0603-6509

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field McElmo Creek

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1962,

Agent's address 300 Fillmore Street Company Wilshire Oil Company of Texas

Denver 6, Colorado

Signed R. C. Austin

Phone 355-1621

Agent's title Production Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE NW 2	41S	24E	1-C	31	2791	43	2749.9		None	Pumping
NW NW 2	41S	24E	2-C							Drilled as a water injection well to T.D. 5558 Casing was set 1-10-62 with plug back T.D. 5508 This well will go into the McElmo Creek Unit

NOTE.—There were 2860 runs or sales of oil; 2,066 M. cu. ft. of gas sold;
No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

THE SUPERIOR OIL COMPANY

P. O. DRAWER 8

CORTEZ, COLORADO
February 19, 1962

State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
Salt Lake City 11, Utah

Attention: Mr. R. L. Schmidt

Dear Mr. Schmidt:

Effective February 1, 1962, the Wilshire Oil Company well #C-2 located in the west 1/2 of the NW 1/4 of section 2, T41S, R24E, San Juan County, Utah was included in the McElmo Creek Unit participating area. This well was completed January 10, 1962.

As a result of this enlargement, the McElmo Creek Unit will have 161 developed 80 acre drilling units during the month of February.

Yours truly,



D. D. Kingman

DDK/njh

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U. S. G. S. Form No. 40-11.1-1
Revised August 19-11-55

State Utah
County San Juan
Field McElmo Creek
Date May 30
Mine No. 14-20-0503-6509

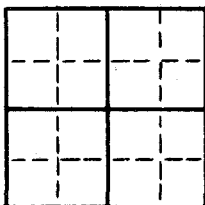
LESSEE'S MONTHLY REPORT OF OPERATIONS

The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 19 62,
Agent's address 300 Fillmore Street Company Wilshire Oil Company of Texas
Denver 6, Colorado Signed Kenneth O. Austin
Phone 355-1621 Agent's title Production Superintendent

SEC. AND 4 OF 4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (in thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (if none, so state)	REMARKS (If drilling, depth; if shut down, cause, date and result of test for gasoline content of gas)
SE NW 2	41S	24E	1-C	28	3209	43	3226.7	None	None	Pumping
NW NW 2	41S	24E	2-C		This well went into the McElmo Creek Unit effective February 1, 1962					

NOTE.—There were 3192 runs or sales of oil; 3185 M. cu. ft. of gas sold;
No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION
SALT LAKE CITY, UTAH

Fee and Patented.....☐
 State☐
 Lease No.
 Public Domain☐
 Lease No.
 Indian Navajo☐
 Lease No. 14-20-0603-
6509

SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill..... Notice of Intention to Change Plans..... Notice of Intention to Redrill or Repair..... Notice of Intention to Pull or Alter Casing..... Notice of Intention to Abandon Well.....	Subsequent Report of Water Shut-off..... Subsequent Report of Altering Casing..... Subsequent Report of Redrilling or Repair..... Supplementary Well History.....
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(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 12, 19 62

Well No. 2 - C is located 820 ft. from {N} line and 820 ft. from {E} line of Sec. 2

SE NW NW 41S 24E SLM
 (¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Aneth San Juan Utah
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4478 feet.

A drilling and plugging bond has been filed with

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

Spudded December 12, 1961
 Ran 91 ft. of 13 3/8" Casing Set @ 102' K.B. Cemented with 100 sx.
 Ran 1388.38' of 8 5/8" 24# J-55 Casing Set @ 1400' K.B. Cemented with 700 sx.
 Got water shut off.
 Drilled to T.D. 5568'
 Ran 5551.44 ft. 5 1/2" 14# J-55 Casing Set @ 5541' K.B. Cemented with 275 sx.
 Plug Down January 9, 1962

This well will be completed as an injection well or a producer by the Superior Oil Co., operator of the McElmo Creek Unit.

I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company Wilshire Oil Company of Texas

Address 300 Fillmore

Denver 6, Colorado

By *[Signature]*

Title Production Superintendent

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

WILSHIRE OIL COMPANY OF TEXAS
300 FILLMORE STREET
DENVER 6, COLORADO

March 13, 1962

State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
Salt Lake City 11, Utah

Gentlemen:

Enclosed are Sundry Notices regarding the completions
of Navajo Well 2-C and Navajo Well 2-B.

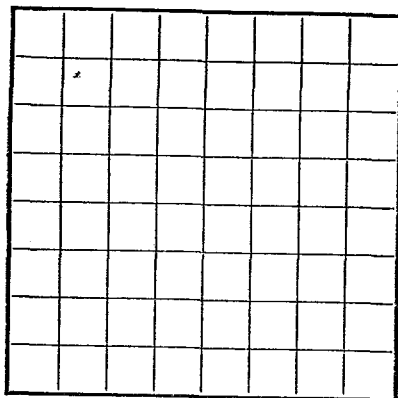
Very truly yours,

WILSHIRE OIL COMPANY OF TEXAS



K. O. Austin
Production Superintendent

KOA:bb



LOCATE WELL CORRECTLY

 U. S. LAND OFFICE _____
 SERIAL NUMBER _____
 LEASE OR PERMIT TO PROSPECT _____
14-20-0603-6509

 UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY
LOG OF OIL OR GAS WELL
 Company Wilshire Oil Co. of Texas Address 300 Filmore St., Denver, Colo.
 Lessor or Tract Tribal Navajo Field Aneth State Utah
 Well No. 2 C Sec. 2 T. 41SR24E Meridian SLM County San Juan
 Location 820 ft. N. of N Line and 820 ft. E. of W Line of Sec. 2 Elevation 4478
(Derrick floor relative to sea level)

 The information given herewith is a complete and correct record of the well and all work done thereon
 so far as can be determined from all available records.

 Signed Don H. Ford Title Agent
 Date March 14, 1962

The summary on this page is for the condition of the well at above date.

 Commenced drilling Dec. 12, 1961 Finished drilling Jan 31, 1962
OIL OR GAS SANDS OR ZONES

(Denote gas by G)

 No. 1, from _____ to _____ No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____
IMPORTANT WATER SANDS
 No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____
CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	95	100			
8-5/8"	1385	600			
5-1/2"	5568	300			

PLUGS AND ADAPTERS
 Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

13-3/8"	95	100				
8-5/8	1385	600				
5-1/2	5568	300				

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

[illegible]

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

-----, 19----- Put to producing -----, 19-----

The production for the first 24 hours was ----- barrels of fluid of which -----% was oil; -----% emulsion; -----% water; and -----% sediment. Gravity, °Bé. -----

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller

_____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			See letter dated 3-22-62 for formation type.
Hermosa		<u>Navajo 2-B</u> 4409 (+79)	<u>Navajo 2-C</u> 4409 (+68)
Ismay		5207 (-719)	5208 (-731)
Paradox Shale		5364 (-876)	5355 (-878)
Desert Creek		5374 (-886)	5365 (-888)
T.D.		5561 (-1073)	5568 (-1091)
FROM—	TO—	TOTAL FEET	FORMATION

[OVER]

LOKIATION RECORD--CONTINUED

16-43094-

10-43094-2

Well Name	Location	County	State
McElmo Creek	Montezuma	San Juan	New Mexico
BINDER VIDE INFORMATION			
Well No.	Depth	Drilled	Completed
1	95	12/13/61	12/13/61
2	1385	1/31/62	1/31/62
3	5569	1/31/62	1/31/62
WELL LOG			
Well No.	Depth	Drilled	Completed
1	95	12/13/61	12/13/61
2	1385	1/31/62	1/31/62
3	5569	1/31/62	1/31/62

HISTORY OF OIL OR GAS WELL

10-43094-2 U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Well was spudded December 13, 1961. Drilled to 95 feet, set 13-3/8" conductor casing. Drilled to 1385 feet, set 8-5/8" surface casing to shut off all water zones. Drilled to 5569 feet, set 5-1/2" at 5568 feet on January 31, 1962. This well was turned over to the McElmo Creek Unit to be used as an injection well for water flood.

WELL LOG

10' 0" from	10' 0" from
10' 0" from	10' 0" from
10' 0" from	10' 0" from

(Ditto Box 10)

OLD ONE ONE THREE ONE THREE

WELL LOG

WELL LOG

WELL LOG

WELL LOG

WELL LOG

WELL LOG

WELL LOG

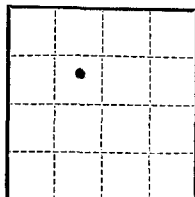
(SUBMIT IN TRIPLICATE)

Indian Agency Window Rock

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Alottee Tribal

Lease No. 14-20-0603-6509



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	<u>X</u>
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	<u>-</u>
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	<u>X</u>
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 14, 19 62

Well No. Navajo 2 C is located 820 ft. from [N] line and 820 ft. from [E] line of sec. 2
SE NW NW 41 S 24 E SLM
($\frac{1}{4}$ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Aneth San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4478 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Well was spudded December 13, 1961, drilled to 95 feet, set 13-3/8" conductor casing. Drilled to 1385 feet, set 8-5/8" surface casing to shut off all water zones. Drilled to 5569 feet, set 5-1/2" at 5568 feet on January 31, 1962. This well was turned over to the McElmo Creek Unit to be used as an injection well for water flood.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Wilshire Oil Co. of Texas

Address 300 Filmore Street
Denver, Colorado

By Don H. Ford
Don H. Ford Agent
Title _____

THE SUPERIOR OIL COMPANY

P. O. DRAWER 8

CORTEZ, COLORADO

March 15, 1962

State of Utah
Utah Oil & Gas Conservation Commission
310 Newhouse Building
Salt Lake City, Utah

Attention: Mr. R. L. Schmidt

Dear Bob,

This is to confirm that an agreement was made between Wilshire Oil Company and the McKlmo Creek Unit working interest owners concerning the Wilshire #B-2 and #C-2 wells. It was agreed in an operators meeting December 5, 1961 that the tracts on which these two wells are presently located would be allowed to participate in the unit after a well had been drilled and casing set to a depth prescribed by the Unit operator.

This agreement was made because the operator had very little chance of making commercial wells at these locations, but the location of these wells made them very desirable as injection wells.

APR's are now circulating to other operators and these wells will be completed in the near future.

Yours truly,

D. D. Kingman
D. D. Kingman

DOK/njh

C
O
P
Y

WILSHIRE OIL COMPANY OF TEXAS

300 FILLMORE STREET
DENVER 6, COLORADO

March 22, 1962

The State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
10 Exchange Place
Salt Lake City 11, Utah

Attention: Miss Karen Bergman

Re: Wells No. Navajo 2-B and 2-C,
San Juan County, Utah

Dear Miss Bergman:

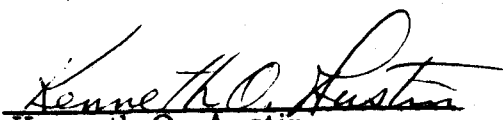
In reply to your request of March 19, please find listed below the requested formation tops:

	Navajo 2-B	Navajo 2-C
Hermosa	4409 (✓ 79)	4409 (✓ 68)
Ismay	5207 (- 719)	5208 (-731)
Paradox Shale	5364 (-876)	5355 (-878)
Desert Creek	5374 (-886)	5365 (-888)
T.D.	5561 (-1073)	5568 (-1091)

We are very sorry to have caused you additional work.

Very truly yours,

WILSHIRE OIL COMPANY OF TEXAS


Kenneth O. Austin
Production Superintendent

KOA:jd

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____

Window Rock _____

Allottee Nava jo

Lease No. 14-20-603-6309

X			
	2		

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL	Notice of Completion for Water Injection	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 15, 1962

McElmo Creek Unit

Well No. B-13 is located 820 ft. from N line and 820 ft. from W line of sec. 2

NW NW Section 2

(1/4 Sec. and Sec. No.)

41S

(Twp.)

24E

(Range)

SL66M

(Meridian)

Greater Aneth

(Field)

San Juan

(County or Subdivision)

Utah

(State or Territory)

The elevation ~~XXXXXX~~ above sea level is 4480 ft. K.B.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

5-9-62 - Perforated 5457'-75' and 5479'-5502' with 4 jets per ft.
Set Otis Packer at 5435' on cement lined tubing.

Acid Job #1: 2500 gal. reg. 15% acid. Broke formation with 3900# back to 1500#. On vac. with 9 bbl. acid in formation. Flushed tubing with 32 bbl. 8.6#/gal. S.W. Max pressure 4400#. Avg. injection rate 7 BPM. Swabbed 2 hrs., F.L. @ 1500'; swabbed to 4000'. Rec. 60 bbl. Flush water and A.W.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company THE SUPERIOR OIL COMPANY

Address P. O. DRAWER "G"

CORTEZ, COLORADO

Original Signed By

D. D. KINGMAN

By

D. D. Kingman

Title

Prod. Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN THE
(Other instructions
reverse side)Form approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injection		5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-6509
2. NAME OF OPERATOR THE SUPERIOR OIL COMPANY <i>Wilshire</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P. O. DRAWER 'G', CORTEZ, COLORADO		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW NW Section 2, T41S, R24E San Juan County, Utah		8. FARM OR LEASE NAME McElmo Creek
14. PERMIT NO.		9. WELL NO. #B-13
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4478' KB		10. FIELD AND POOL, OR WILDCAT McElmo Creek
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA NW NW Sec. 2, T41S, R24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING ☒(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

10-26-65	Perforate 5368-83' with 2 jets per foot - 15' - 30 holes. Acidize perfs with 6000 gal 28% iron acid.
10-27-65	Put well on injection. Injected 2470 bbls in 15½ hrs - 3816 BPDR. Pressure 375/200
10-28-65	5212 bbls in 24 hrs. Pressure 625/200.

18. I hereby certify that the foregoing is true and correct

SIGNED D. D. KingmanTITLE Production EngineerDATE 12-3-65

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPL
(Other instructions
verse side)Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injection		5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-6509
2. NAME OF OPERATOR The Superior Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P. O. Drawer 'G', Cortez, Colorado		7. UNIT AGREEMENT NAME McElmo Creek
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 820' FNL, 820' FWL NW NW Sec. 2, T41S, R24E San Juan County, Utah		8. FARM OR LEASE NAME
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4478' KB	9. WELL NO. #B-13
		10. FIELD AND POOL, OR WILDCAT McElmo Creek Unit
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 2, T41S, R24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☒REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Will squeeze off all existing perforations. Will reperforate with 2 jets per foot 5368-83', and will perforate with 1 jet at the following locations: 5461, 5471, 5485, 5498, 5507, 5517, 5529. Perforations 5461-5529 will be treated with 500 gallons 28% acid and 5000 gallons 15% acid. Perfs 5368-83 will be treated with 5000 gallons 28% acid. A choke will be set at 5430' to control injection into lower perfs.

18. I hereby certify that the foregoing is true and correct

SIGNED

D. D. Kingman

TITLE

Production Engineer

DATE

12/16/65

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

DDK/njh

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN PLATE B*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injection	5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-6509
2. NAME OF OPERATOR The Superior Oil Co.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P. O. Drawer "G" Cortez, Colorado	7. UNIT AGREEMENT NAME McElmo Creek
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 820'FNL 820'FWL NW NW Sec 2, T41S, R24E San Juan County, Utah	8. FARM OR LEASE NAME
14. PERMIT NO.	9. WELL NO. B-13
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4478'KB	10. FIELD AND POOL, OR WILDCAT McElmo Creek Unit
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 2, T41S, R24E
	12. COUNTY OR PARISH San Juan
	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☒

(Other) Reporforate & Acidize

REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PBTD 5541'

Squeezed off all perf's.

Drill cement to 5541'

Perforated w/2 jets per ft. 5368-83'-15'

Perforated w/1 jet following at locations 5461, 5471, 5485, 5498, 5507, 5517, 5529'.

Treated perfs 5461-5529' w/500 gal 28% acid & 5000 gal 15% acid

Treated perfs 5368-83 w/5000 gal 28% acid.

Set packer at 5315 on 2-7/8" cement lined Hydril tubing, returned well to injection

18. I hereby certify that the foregoing is true and correct

SIGNED

D. D. Kingman

TITLE Production Engineer

DATE 1/11/66

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth
Associate Director

RECEIVED
MAY 16 1986

DIVISION OF
OIL, GAS & MINING

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



CNE/rd
CNE8661

R. D. Baker
Environmental Regulatory Manager

Injection Wells 1/5
OnlyWESTERN REGULATORY WELL COMPLIANCE DATA FILE (PAGE 1 OF 2)
FOR THE CORTEZ SUPERVISOR AREA
FOR THE GREATER ANETH FIELD 05/13/86

PROPERTY NAME	WELL NAME	COUNTY	STATE	SEC	TOWNSHIP	RNG	WELL TYPE	S T API NUMBER	FEDERAL LEASE NUMBER	STATE NUMBER	UNIT NUMBER
GOTHIC MESA	9-24	SAN JUAN	UT	SE	SW	9-41S-23E	INJ	SI 43-037-16452	14-20-603-242		94-004216
	9-44	SAN JUAN	UT	SE	SE	9-41S-23E	INJ	SI 43-037-16451	14-20-603-242		94-004216
	16-24	SAN JUAN	UT	SE	SW	16-41S-23E	INJ	SI 43-037-16454	14-20-603-243		94-004216
	16-44	SAN JUAN	UT	SE	SE	16-41S-23E	INJ	SI 43-037-16453	14-20-603-243		94-004216
MC ELKO CREEK	A17-1	SAN JUAN	UT	NE	NE	10-41S-24E	INJ	OP 43-037-05592	14-20-0603-6148		96-004190
	A17-2	SAN JUAN	UT	NE	NE	10-41S-24E	INJ	SI 43-037-05592	14-20-0603-6148		96-004190
	B-13	SAN JUAN	UT	NW	NW	2-41S-24E	INJ	OP 43-037-05701	14-20-603-6509		96-004190
	B-15	SAN JUAN	UT	NW	SW	02-41S-24E	INJ	OP 43-037-05657	14-20-603-6508		96-004190
	D-13	SAN JUAN	UT	NW	NE	2-41S-24E	INJ	OP 43-037-16267	14-20-603-6510		96-004190
	D-15	SAN JUAN	UT	NW	SE	2-41S-24E	INJ	OP 43-037-05656	14-20-0603-6147		96-004190
	D-17	SAN JUAN	UT	NW	NE	11-41S-24E	INJ	OP 43-037-15704	14-20-603-5447		96-004190
	E-19	SAN JUAN	UT	NE	SE	11-41S-24E	INJ	OP 43-037-16342	14-20-603-5449		96-004190
	E-21	SAN JUAN	UT	NE	NE	14-41S-24E	INJ	OP 43-037-16343	14-20-603-370		96-004190
	E-23	SAN JUAN	UT	NE	SE	14-41S-24E	INJ	OP 43-037-16344	14-20-603-370		96-004190
	F-11	SAN JUAN	UT	NW	SW	36-40S-24E	INJ	OP 43-037-05743	14-20-0603-6146		96-004190
	F-13	SAN JUAN	UT	NW	NW	01-41S-24E	INJ	OP 43-037-16345	14-20-603-4032		96-004190
	F-15A	SAN JUAN	UT	NW	SW	1-41S-24E	INJ	OP 43-037-31149	14-20-603-4032		96-004190
	F-17	SAN JUAN	UT	NW	NW	12-41S-24E	INJ	OP 43-037-15493	14-20-603-4039		96-004190
	F15A	SAN JUAN	UT	NW	SW	01-41S-24E	INJ	OP 43-037-31149	14-20-603-4032		96-004190
	G-18	SAN JUAN	UT	SE	NW	12-41S-24E	INJ	OP 43-037-15494	14-20-603-4039		96-004190
	G-19	SAN JUAN	UT	NE	SW	12-41S-24E	INJ	OP 43-037-05532	14-20-603-5450		96-004190
	G-21	SAN JUAN	UT	NE	NW	13-41S-24E	INJ	SI 43-037-16347	14-20-603-370		96-004190
	G-21A	SAN JUAN	UT	NE	NW	13-41S-24E	INJ	OP 43-037-30974	14-20-603-370		96-004190
	G-23	SAN JUAN	UT	NE	SW	13-41S-24E	INJ	OP 43-037-16348	14-20-603-370		96-004190
	G-25	SAN JUAN	UT	NE	NW	24-41S-24E	INJ	OP 43-037-16349	14-20-603-370		96-004190
	H-11	SAN JUAN	UT	NW	SE	36-40S-24E	INJ	OP 43-037-05739	14-20-0603-6145		96-004190
	H-13	SAN JUAN	UT	NW	NE	01-41S-24E	INJ	OP 43-037-05708	14-20-603-4032		96-004190
	H-15	SAN JUAN	UT	NW	SE	01-41S-24E	INJ	OP 43-037-05666	14-20-603-4039		96-004190
	H-17	SAN JUAN	UT	NW	NE	12-41S-24E	INJ	OP 43-037-05605	14-20-603-4039		96-004190
	I-20	SAN JUAN	UT	SE	SE	12-41S-24E	INJ	OP 43-037-05524	14-20-603-4495		96-004190

Converted 5/10/62 ✓

UTAH DIVISION OF OIL, GAS AND MINING
CASING-BRADENHEAD TEST

OPERATOR: MEPNAFIELD: Greater Aneth LEASE: McElmo CreekWELL # B-13 (Navajo C-2) SEC. 2 TOWNSHIP 41S RANGE 24ESTATE FED. FEE DEPTH 5568 TYPE WELL INTJW MAX. INJ. PRESS. 2800
PBTD 5541 Rate 4000 BWPD
Water Tracer Survey Run 3/21/86TEST DATE 9/10/86

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>13³/₈"</u>	<u>95'</u>	<u>100sx</u>		<u>SI - due to #6</u>	
<u>INTERMEDIATE</u>	<u>8⁵/₈"</u>	<u>1385</u>	<u>600sx</u>		<u>Injection trunk.</u>	
<u>PRODUCTION</u>	<u>5¹/₂"</u>	<u>5568</u>	<u>300sx</u>		<u>line shut-down</u>	
<u>TUBING</u>	<u>2⁷/₈"</u>					

5¹/₂" Baker Lok-set Pkr at 5315'

10/22/86

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>13³/₈"</u>			<u>-50-</u>		
<u>INTERMEDIATE</u>	<u>8⁵/₈"</u>					
<u>PRODUCTION</u>	<u>5¹/₂"</u>			<u>-4¹/₂-</u>		
<u>TUBING</u>	<u>2⁷/₈"</u>			<u>2100</u>		

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

NWN 1/4 Sec. 2, T41S, R24E
820' FNL & 820' FWL
San Juan County, Utah

FIELD: McELMO CREEK

KB: 4478' DF: 4477' GL: 4468' TD: 5568' PBTD: 5541' TLD: 10.0' TOC: 4302'

SPUDDED: 12-13-61

COMPLETED:

PAY ZONE: Injection well, DESERT CREEK ZONES 1 & 2 Commingled.

PERFS: Zone 1 - 5368-83'
Zone 2 - 1 jet at 5461', 5471', 5485', 5498', 5507', 5517', 5529'CASING: 13-3/8" OD, 48#, H-40, R-2, ST&C set at 95' w/ 100 sx cmt.
8-5/8" OD, 24#, J-55, R-2, ST&C set at 1385' w/ 600 sx cmt.
5-1/2" OD, 14#, J-55, R-2, ST&C set at 5528' w/ 300 sx cmt.

TUBING: 2-7/8" OD, EUE, 6.5#, J-55, cement lined tbg.

PACKERS: 5-1/2" Baker Lok-set packer at 5315'.

PUMP'G EQUIP: None

REMARKS: Converted to water injection well 5-10-62.
Bridge plug at 5532'.

5-19-62 Acidized w/ 2500 gal. reg. 15% acid by Dowell. Job completed
w/ well on vacuum. Placed well on injection.10-26-65 Dowell treated perfs 5368-83' w/ 6000 gal 28% iron acid.
Final press 4300 PSI. After 3 min "0" PSI. Placed well
back on injection.12-14-18-65 Sqz'd w/ 500 sx 0.6 Halad 9 just below pkr at 5243'. Drilled
out 135'. Dropped down and drilled out to 5541'. Perf'd 5368-83'
w/ 30 holes and 5461', 5471', 5485', 5498', 5507', 5517', 5529'
w/ 1 jet per ft. Acidized perfs 5461', 5529' w/ 5000 gals 15%
acid, acidized perfs 5368-83' w/ 5000 gal 28% acid.

INITIAL WELL TEST

McELMO CREEK UNIT #B-13

DATE May 7, 1962

OIL BBL/DAY Completed as an injection well no initial
production data

OIL GRAVITY _____

GAS CU.FT/DAY _____

GAS-OIL RATIO CU/FT/BBL _____

WATER BBL/DAY _____

PUMPING/FLOWING _____

CHOKE SIZE _____

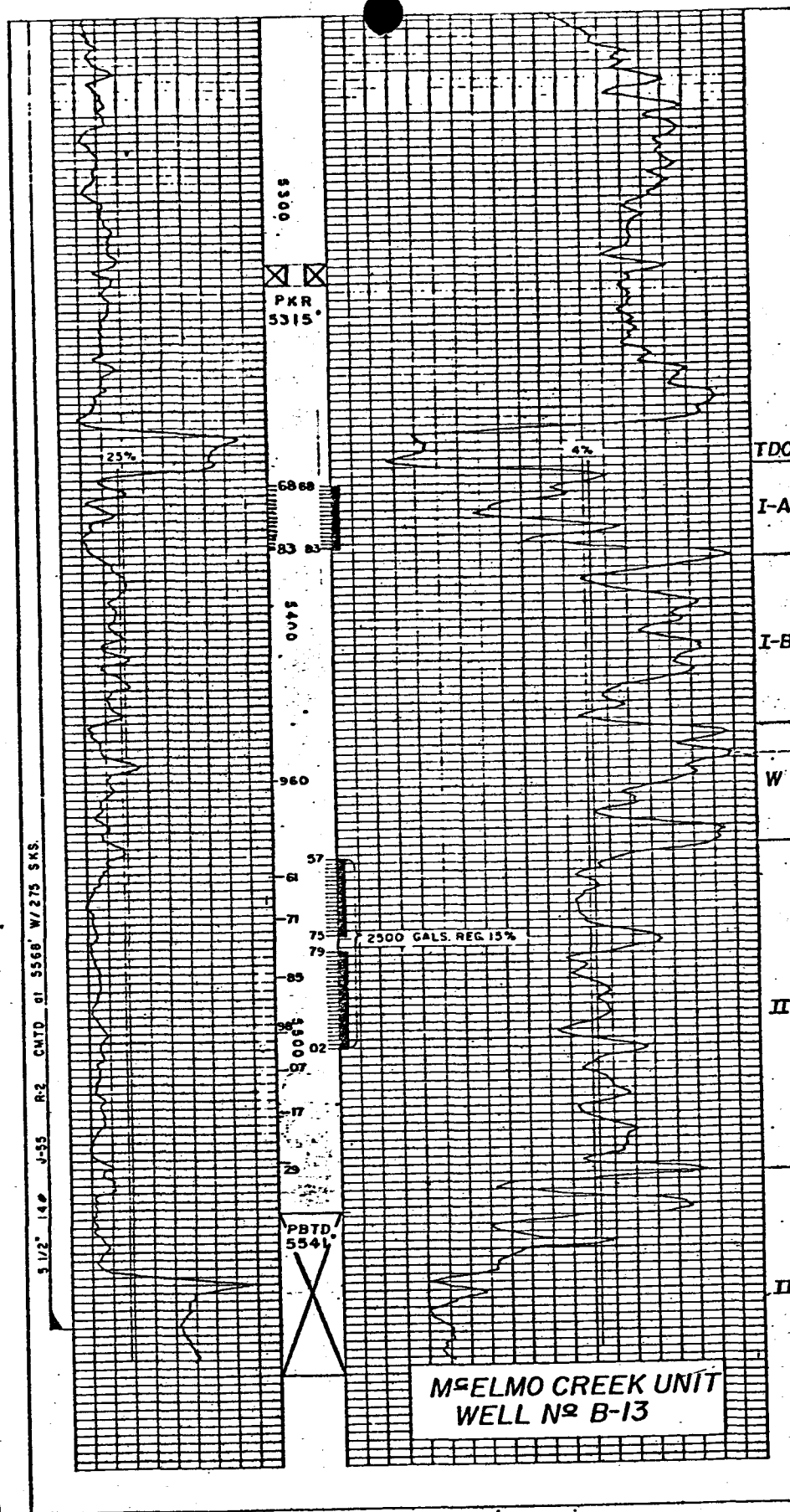
FLOW TUBING PRESSURE _____

10-26-65: Perfed 5368-83'. Acidized with 6000 gals 28% iron acid

1-11-66: Squeezed off all perf's. Drilled out to 5541'

Perfed 5368-83'. Perfed 5461', 5471', 5485', 5498', 5507', 5517', 5529'. Treated perfs. 5461-5529' W/500 Gal 28% Acid & 5000 Gal 15% Acid. Treated Perfs 5368-83' W/500 Gal 28% Acid.

Set Packer at 5315' on 2 7/8" Cement lined Hydril tubing, Returned to Injection.



R.A. Vel & Temp Log 5-25-71, 1935 BPD.
(Water Leaving Casing 5373-83' Channel to Zone II)

McELMO CREEK UNIT
THE SUPERIOR OIL CO. OPERATOR
NW NW SEC. 2, T41 S, R24 E.
SAN JUAN COUNTY, UTAH.
ELEV. 4478' K.B. TD. 5568'

Well No. B-13

McElmo Creek Unit

ATTACHMENT I

RULE I-5: Application for Approval of Class II Injection Wells

(a) Well Data Sheets.

- (b) (1) Plat #1.
(2) Well Data Sheets.
(3) Well Data Sheets & Logs.
(4)

i. The average intervening thickness is 4000' between the existing injection interval and the deepest fresh water sand.

ii. Maximum Surface Pressure: 2800 psig.
Maximum Rate: 4000 BWPd.

<u>FORMATION</u>	<u>DEPTH</u>	<u>LITHOLOGY</u>
Chinle	1300' avg.	Shale
DeChelly	2350' avg.	Sandstone
Organ Rock	2600' avg.	Shale
Hermosa	4400' avg.	Limestone
Upper Ismay	5300' avg.	Limestone
Lower Ismay	5370' avg.	Limestone
Gothic	5450' avg.	Shale
Desert Creek	5460' avg.	Limestone
Chimney Rock	5550' avg.	Shale

(5)

(i) A throttling valve is installed on the wellhead to control injection rates and pressures.

(ii) The source of injection water is Superior's production wells within the McElmo Creek Unit. The wells produce from the Ismay and Desert Creek formations with approximate depths of 5300' and 5460' respectively.

(iii) The analysis of injection water is as follows: (as parts per million).

PH: 6.5	Ca: 13770 ppm	SO4: 25 ppm
CL: 16700 ppm	Mg: 11421 ppm	H2S: 30 ppm
Fe: 3 ppm	HCO3: 109.8 ppm	Ba: -
CaCO3: 18470 ppm	CO3: -	Specific Gravity: 1.0553

McElmo Creek Unit

(5) Cont.

(iv) The injection zones are the Ismay and Desert Creek formations. Both zones are carbonate formations consisting of limestone, anhydrite and dolomite. The formations extend throughout the Paradox Basin and are underlain by the Chimney Rock Shale and are overlain by the Hermosa Limestone.

(v) Fresh water zones (Morrison, Bluff, Entrada) range from 0 to 1300' with Entrada being the deepest and somewhat saline.

(vi) The analysis of formation water (Desert Creek) is as follows: (as parts per million).

PH: 6.6	Ca: 17410 ppm	SO ₄ : 33 ppm
CL: 34800 ppm	Mg: 11518 ppm	H ₂ S: 10 ppm
Fe: 1.5 ppm	HCO ₃ : 48.8 ppm	Ba: -
CaCO ₃ : 22150 ppm	CO ₃ : -	Specific Gravity: 1.0902

(6) To assure that injection is confined to intervals intended to receive the disposed water, wireline diagnostic surveys are run periodically to determine whether any escapement is taking place. If such information is discovered, the disposal well will be shut-in until proper measure can be taken. Casing pressure readings are made regularly to verify that no tubing or packer leaks have developed. If such leaks develop, the well will be shut-in until proper repairs can be made.

(7) N/A.

(8) The Division will be notified of the date and time to monitor the mechanical integrity test.

(9) N/A.

(10) N/A.

R24E

R25E

T
40
ST
41
S

LEGEND

- FUTURE LOCATION
- DRILLING WELL (STATUS)
- OIL WELL
- ▼ WATER INJECTION WELL
- ⊙ DUAL SERVICE, INJ/PROD

O/W CONTACT -960

0 2000' 4000'

McELMO CREEK UNIT

SUPERIOR FIGURE WESTERN DIVISION

McELMO CREEK UNIT
SAN JUAN COUNTY, UTAH

SUPERIOR OIL - WESTERN DIVISION

STRUCTURE II

BY TOP OF

DESERT CREEK LIMESTONE, DEV

DATE: 4-14-73 ZONE 2 DRAWING NO.

BY:

DATE:

CHECKED:

SCALE:

C.T. 25ft.

DRAWN BY:

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Superior Well No. McGowan Creek Unit
 County: San Juan T 415 R 24E Sec. 2 API# 43-037-16339
 New Well ☐ Conversion ☐ Disposal Well ☐ Enhanced Recovery Well ☒

	YES	NO
UID Forms Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plat including Surface Owners, Leaseholders, and wells of available record	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schematic Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fracture Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pressure and Rate Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adequate Geologic Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fluid Source	<u>Desert Creek - Gravity</u>	

Analysis of Injection Fluid

Yes ☒ No ☐ TDS 60,000+

Analysis of Water in Formation to be injected into

Yes ☒ No ☐ TDS 70,000+

Known USDW in area

Ungate Depth 1300'

Number of wells in area of review

_____ Prod. _____ P&A _____
 Water _____ Inj. _____

Aquifer Exemption

Yes _____ NA ☒

Mechanical Integrity Test

Yes ☒ No ☐

Date 10-24-84 Type Water Table Log

Comments: _____

Reviewed by: APJ

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other INJECTION	5. Lease Designation and Serial No. 14-20-603-6509
2. Name of Operator MOBIL OIL CORPORATION	6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
3. Address and Telephone No. P O BOX 633 MIDLAND, TX 70702 (918) 688-2585	7. If Unit or CA, Agreement Designation MCELMO CREEK UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 820 FNL, 820 FWL SEC 2, T41S, R24E NW NW	8. Well Name and No. B-13
	9. API Well No. 43-037-16339
	10. Field and Pool, or Exploratory Area GREATER ANETH
	11. County or Parish, State SAN JUAN, UTAH

12. **CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other SI STATUS
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*
MOBIL REQUEST SHUT-IN STATUS FOR REFERENCED WELL. WELL IS UNECONOMICAL TO PRODUCE AT THIS TIME.

Accepted by the State
of Utah Division of
Oil, Gas and Mining

Date: _____
By: Shirley Todd *Federal Approval of this Action is Necessary*

RECEIVED

AUG 12 1993

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Shirley Todd **SHIRLEY TODD**

Title **ENV. & REG. TECHNICIAN**

Date **7-28-93**

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
14-20-603-6509

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
MCELMO CREEK UNIT

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

8. Well Name and No.
B-13

2. Name of Operator

MOBIL EXPLORATION & PRODUCING U.S. INC.

9. API Well No.
43-037-16339

3. Address and Telephone No.

P O BOX 633 MIDLAND, TX 79702

(915) 688-2585

10. Field and Pool, or Exploratory Area
GREATER ANETH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

820 FNL, 820 FWL SEC. 2, T41S, R24E NWNW

11. County or Parish, State
SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SEE ATTACHMENTS

RECEIVED

SEP 22 1993

**DIVISION OF
OIL, GAS & MINING**

RECEIVED BY THE STATE

CIVIL AND MINING

RECEIVED BY

CITY

9/24/93

Matthew

14. I hereby certify that the foregoing is true and correct

Signed **Shirley Todd** **SHIRLEY TODD**

Title **ENV. & REG. TECHNICIAN**

Date **9-16-93**

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

***See Instruction on Reverse Side**

McElmo Creek Unit B-13
Uneconomical Well

PLUG AND ABANDONMENT PROCEDURE

NOTE: Any revisions to the following procedure are subject to Mobil and BLM approval.

1. Notify Mark Kelley with the Bureau of Land Management at 505/599-8900 and Jim Walker with the Navajo EPA at 505/368-4125 at least 48 hours prior to plugging the well. Document date/time BLM and EPA are notified and also document the date/time that BLM and/or EPA representatives are on location.
2. MI workover rig. Load well with lease water. If well is not dead use 10 ppg brine. NU and PT BOP's. Release Baker Lok-Set packer at 5315'. Circulate hole to 10 ppg brine if necessary. POH laying down 2-7/8", 6.5 lb/ft cement lined tubing. Install thread protectors while laying down and transport tubing to Mobil's Aneth field pipe yard. RIH with 4-3/4" bit without nozzles, casing scraper for 5-1/2", 14 lb/ft casing and bulldog bailer on 2-7/8" workstring and CO to 5534'. POH. RU wireline unit. RIH with cement retainer on wireline and set at 5108' EL. POH. RD wireline unit. RIH with star-guide stinger and 500' of 2-3/8" CS Hydril tailpipe on 2-7/8" workstring. Sting into cement retainer and pressure test backside to 200 psi and monitor. Establish an injection rate of 1-2 BPM using lease water. Mix and pump 5 bbls fresh water spacer, 116 cu ft of class B 15.6 ppg neat cement, 5 bbls of fresh water spacer. Displace cement to cement retainer using lease water. Do not exceed 2000 psi surface injection pressure. Pull out of cement retainer and reverse out hole to 9 ppg fresh water mud having a minimum viscosity of 50 sec/qt containing a minimum of 15 lbs/bbl of sodium bentonite and a nonfermenting polymer.
3. PU to 4445' and spot 28 cu ft of class B 15.6 ppg neat cement from 4445'-4245'. Pull out of cement plug at less than 30 ft/min. WOC.
4. Tag top of cement plug with workstring. Cement top must be above 4295'. Spot additional cement as necessary. POH laying down all but 1455' of 2-7/8" workstring.
5. RIH with Servco K-mill or equivalent for 5-1/2", 14 lb/ft casing and drill collars as necessary on 2-7/8" workstring. Cut casing at 1455' and mill 1 ft to confirm cut. POH laying down all but 955' of workstring. Spear and recover 5-1/2", 14 lb/ft casing. If 5-1/2" casing string was recovered Go To Step No. 7.

6. If 5-1/2" casing string is cut but cannot be recovered. RIH with cement retainer on 500' of 2-3/8" CS Hydril tubing and 2-7/8" workstring and set at 1405'. PT backside to 200 psi and monitor. Establish injection rate of 1-2 BPM using 9 ppg mud taking returns on 5-1/2" casing annulus. Mix and pump 572 cu ft of class B 15.6 ppg neat cement (includes 100 percent excess as required by BLM) and displace cement to cement retainer. Note: If get good uncontaminated cement returns, the pumping of cement can be discontinued. Pull out of cement retainer and reverse out with 9 ppg mud. POH and lay down drag block setting tool. RIH with 500' of 2-3/8" CS Hydril tailpipe on 2-7/8" workstring to top of cement retainer at 1405'. Fill hole with class B 15.6 ppg neat cement in 400' stages, laying down workstring while POH. Calculated volume required to fill hole is 193 cu ft. Go To Step No. 8.
7. RIH with 500' of 2-3/8" CS Hydril tailpipe on 2-7/8" workstring to 1455'. Fill hole from 1455' to surface with class B 15.6 ppg neat cement in 400' stages, laying down workstring while POH. Calculated volume required to fill hole is 519 cu ft.
8. If top of casing strings are above ground level, cut off casing strings at ground level. Top off all casing annuli with cement. Use 1" spaghetti string if necessary to spot cement. Weld on a 1/4" steel plate having a 1/4" weep hole. Steel plate should cover all casing strings and have the following information welded to the top of the plate:

Mobil E&P U.S.. Inc.
McElmo Creek Unit #B-13
Navajo Tribal Lease
14-20-0603-6509
820' FNL, 820' FWL
Sec. 2 - T41S - R24E
San Juan Co.. Utah

9. RDMD workover rig. Haul off salvaged equipment and clean location. Notify Shirley Todd with Mobil at 918/688-2585 when work is completed so that a Sundry Notice (Subsequent Report of Abandonment, Form 3160-5) can be filed with the Bureau of Land Management.

Mobil Operations Engineer: Sean S. Murphy
Office Phone: 303/565-2208
Home Phone: 303/564-9423

McElmo Creek Unit # B-13

API # 43-037-16339

JOB OR AUTH. NO.

LOCATION 820' FNL, 820' FWL Sec. 2-T4/S-R24E

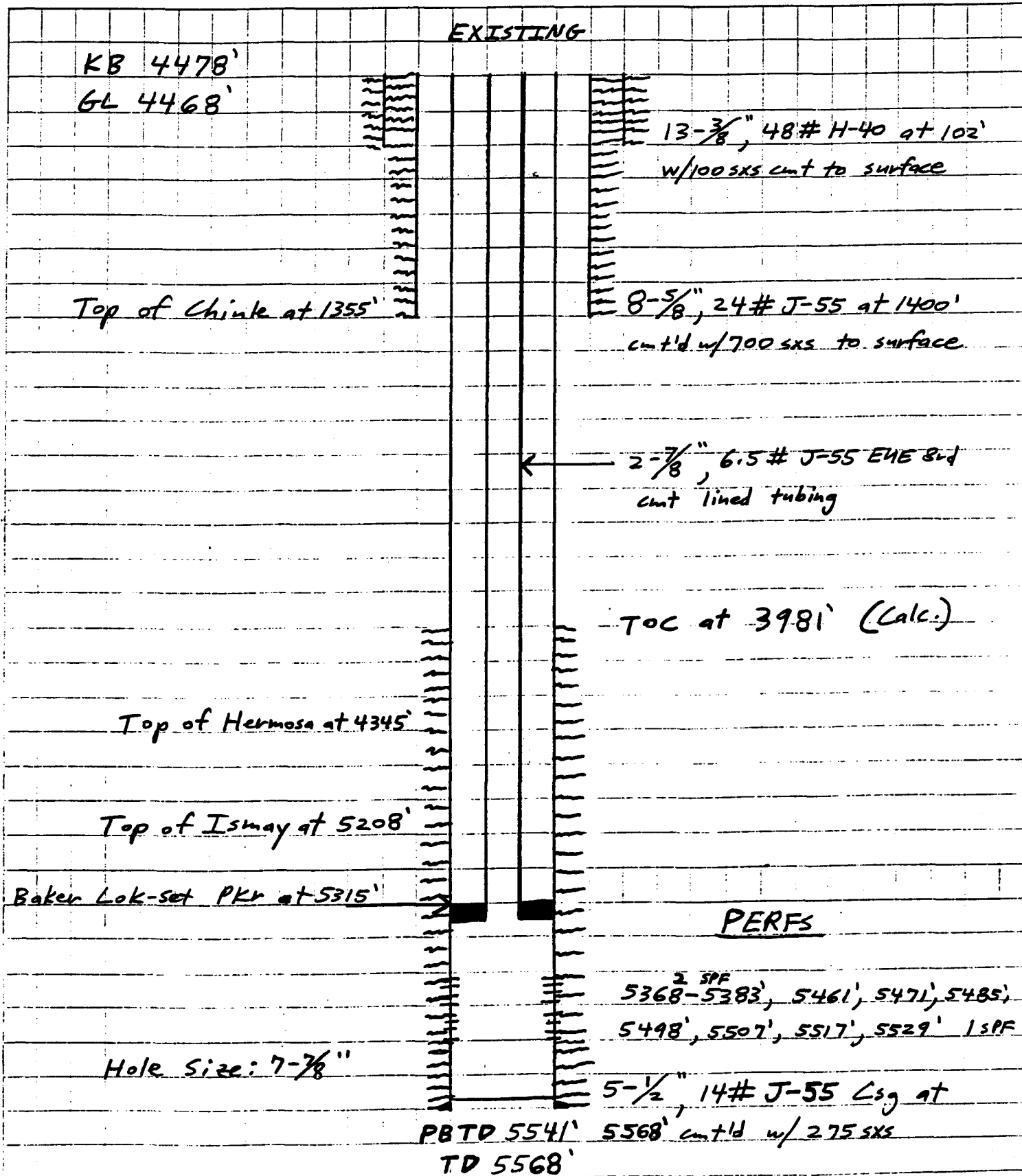
PAGE

SUBJECT Plug and Abandon

DATE 8/Sept/93

LEASE 14-20-0603-6509

BY S. S. Murphy



McElmo Creek Unit # B-13

API # 43-037-16339

JOB OR AUTH. NO.

LOCATION 820' FNL, 820' FWL Sec. 2-T4/S-R24E

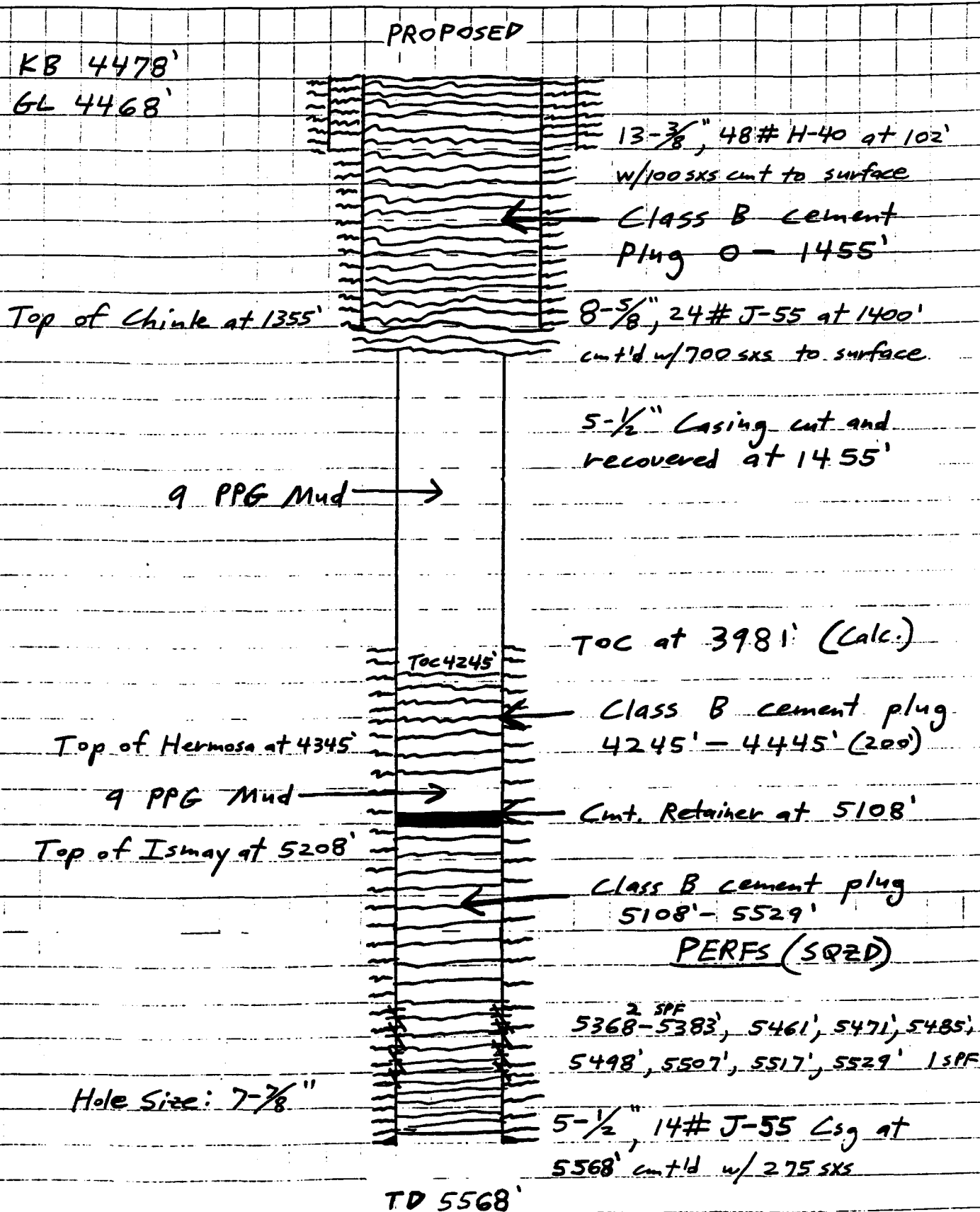
PAGE

SUBJECT Plug and Abandon

DATE 8/Sept/93

LEASE 14-20-0603-6509

BY S. S. Murphy



McElmo Creek Unit B-13
Uneconomical Well
REVISED
PLUG AND ABANDONMENT PROCEDURE

43-037-16339
Sec 2 415 24E

NOTE: Any revisions to the following procedure are subject to Mobil and BLM approval.

1. Notify Mark Kelley with the Bureau of Land Management at 505/599-8900 and Jim Walker with the Navajo EPA at 505/368-4125 at least 48 hours prior to plugging the well. Document date/time BLM and EPA are notified and also document the date/time that BLM and/or EPA representatives are on location.
2. MI workover rig. Load well with lease water. If well is not dead use 10 ppq brine. NU and FT BOP's. Release Baker Lok-Set packer at 5315'. Circulate hole to 10 ppq brine if necessary. POH laying down 2-7/8", 6.5 lb/ft cement lined tubing. Install thread protectors while laying down and transport tubing to Mobil's Aneth field pipe yard. RIH with 4-3/4" bit without nozzles, casing scraper for 5-1/2", 14 lb/ft casing and bulldog bailer on 2-7/8" workstring and CO to 5280' (Optional cleanout trip). POH. RU wireline unit. RIH with CIBP on wireline and set at 5268' EL. POH. RD wireline. RIH with 2-7/8" workstring (2-3/8" CSH tailpipe optional) and tag top of CIBP. Spot 23 cu ft (165') of class B 15.6 ppq neat cement on top of CIBP. Pull out of cement and reverse out hole to 9 ppq fresh water mud having a minimum viscosity of 50 sec/qt containing a minimum of 15 lbs/bbl of sodium bentonite and a nonfermenting polymer. NOTE: If well is taking fluid after setting CIBP, cement plug will need to be tagged.
3. PU to 4445' and spot 28 cu ft of class B 15.6 ppq neat cement from 4445'-4245'. Pull out of cement plug at less than 30 ft/min. WOC.
4. Tag top of cement plug with workstring. Cement top must be above 4295'. Spot additional cement as necessary. POH laying down all but 1455' of 2-7/8" workstring.
5. RU wireline. RIH with 4" perforating gun loaded with deep penetrating charges at 4 SPF and perforate 1451'-1455'. POH.

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 10-14-93

BY: *Matthew*

RECEIVED

OCT 04 1993

DIVISION OF
OIL, GAS & MINING

6. RIH with cement retainer on 2-7/8" workstring and set at 1405' (Wireline set cement retainer optional). PT backside to 200 psi and monitor. Establish injection rate of 1-2 BPM using 9 ppg mud taking returns on 5-1/2" casing annulus. Mix and pump 572 cu ft of class B 15.6 ppg neat cement (includes 100 percent excess as required by BLM) and displace cement to cement retainer. Note: If get good uncontaminated cement returns, the pumping of cement can be discontinued. Pull out of cement retainer and reverse out with 9 ppg mud. POH and lay down drag block setting tool. RIH with 2-7/8" workstring (2-3/8" CSH tailpipe optional) to top of cement retainer at 1405'. Fill hole with class B 15.6 ppg neat cement in 400' stages, laying down workstring while POH. Calculated volume required to fill hole is 193 cu ft.
7. If top of casing strings are above ground level, cut off casing strings at ground level. Top off all casing annuli with cement. Use 1" spaghetti string if necessary to spot cement. Weld on a 1/4" steel plate having a 1/4" weep hole. Steel plate should cover all casing strings and have the following information welded or stamped on the top of the plate:

Mobil E&P U.S., Inc.
McElmo Creek Unit #B-13
Navajo Tribal Lease
14-20-0603-6509
320' FNL. 820' FWL
Sec. 2 - T41S - R24E
San Juan Co., Utah

8. RDMO workover rig. Haul off salvaged equipment and clean location. Notify Shirley Todd with Mobil at 918/688-2585 when work is completed so that a Sundry Notice (Subsequent Report of Abandonment, Form 3160-5) can be filed with the Bureau of Land Management.

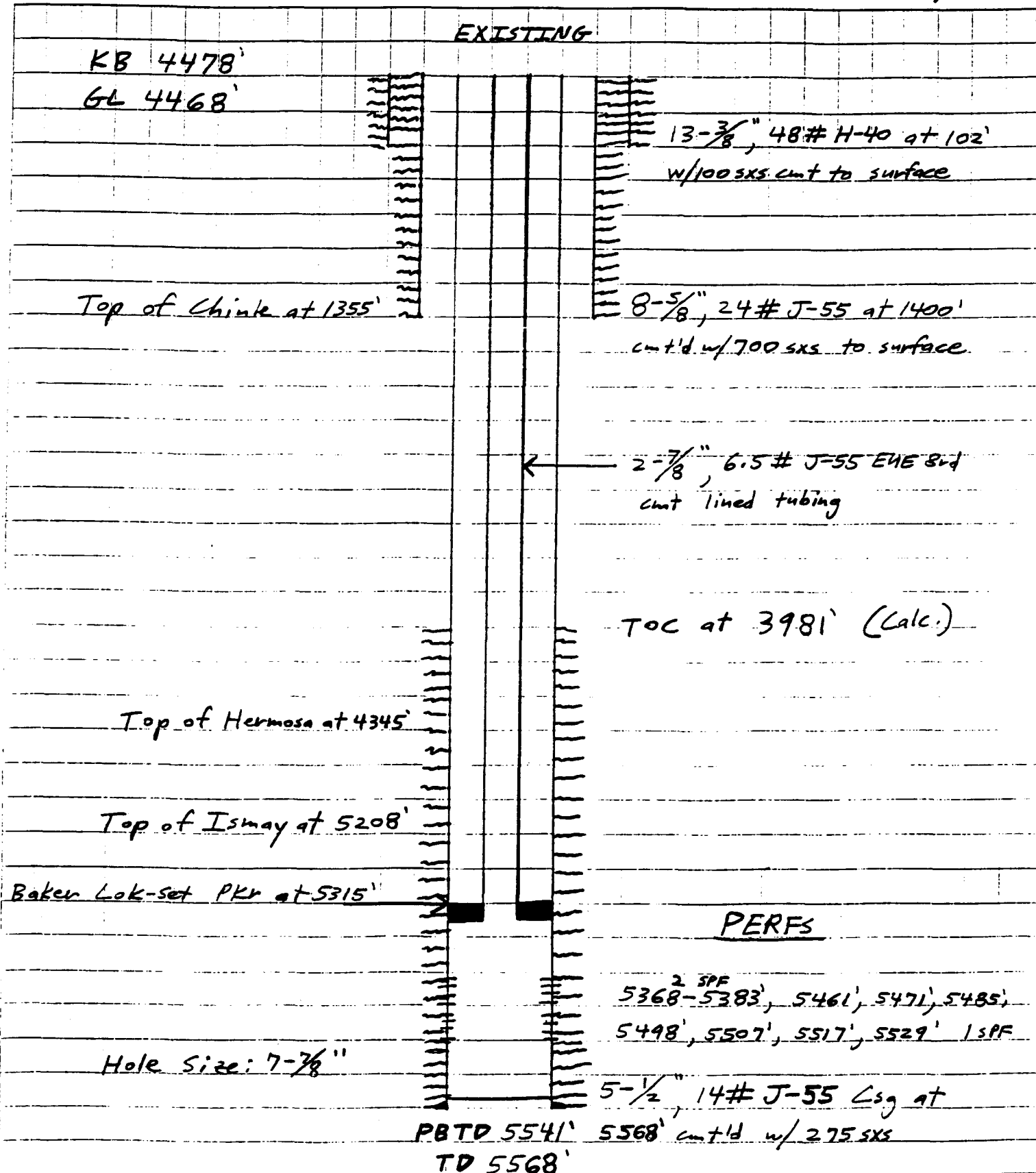
Mobil Operations Engineer: Sean S. Murphy
Office Phone: 303/565-2208
Home Phone: 303/564-9423

McElmo Creek Unit # B-13API # 43-037-16339

JOB OR AUTH. NO.

LOCATION 820' FNL, 820' FWL Sec. 2-T4/S-R24E

PAGE

SUBJECT Plug and AbandonDATE 8/Sept/93LEASE 14-20-0603-6509BY S. S. Murphy

McElmo Creek Unit # B-13

API # 43-037-16339

JOB OR AUTH. NO.

LOCATION 820' FNL, 820' FWL Sec. 2-T41S-R24E

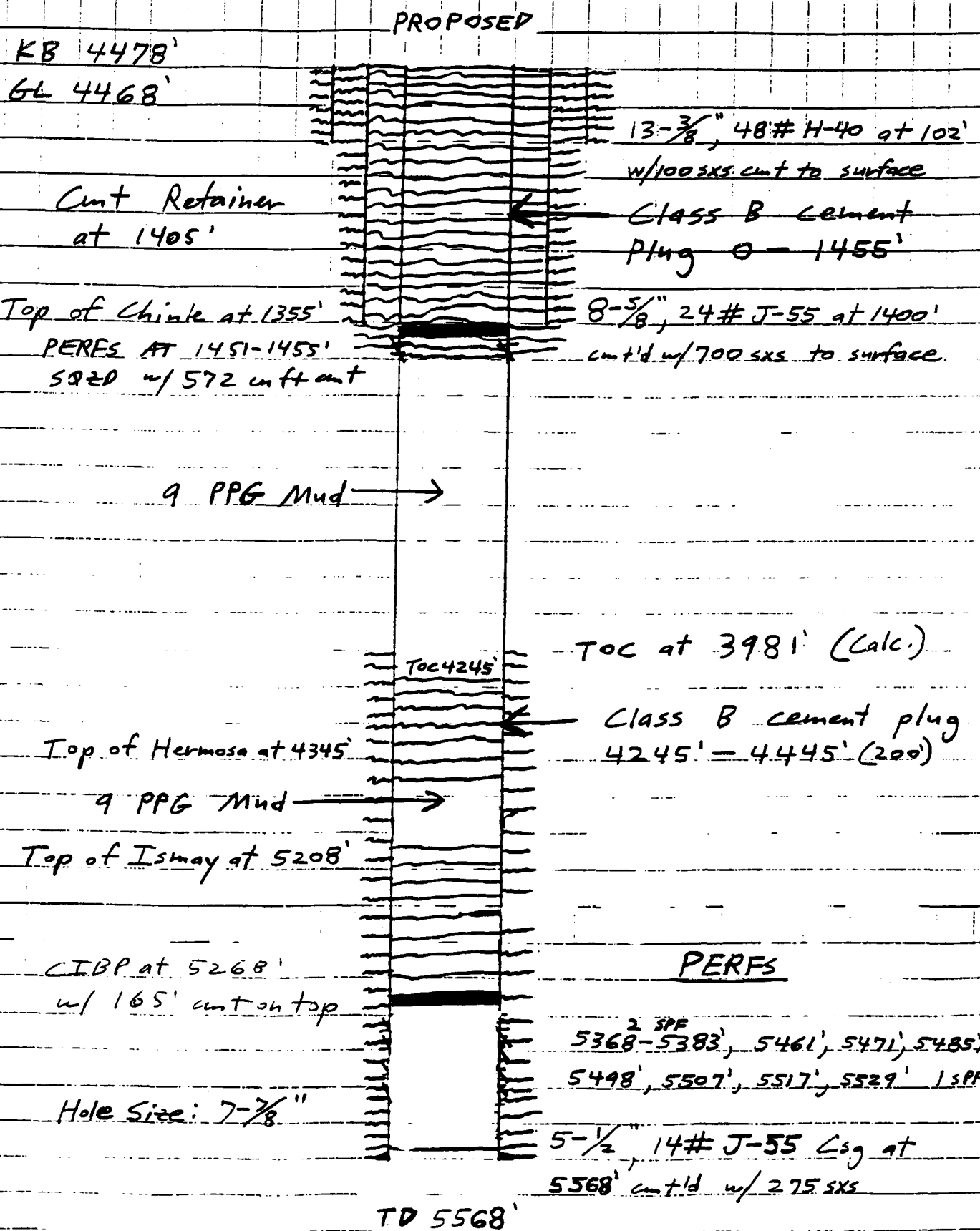
PAGE

SUBJECT Plug and Abandon

DATE 8/Sept/93

LEASE 14-20-0603-6509

BY S. S. Murphy



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

2. Name of Operator

MOBIL OIL CORPORATION

3. Address and Telephone No.

P O BOX 633 MIDLAND, TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

820' FNL, 820 FWL SEC. 2, T41S, R25ENWNW

24E

5. Lease Designation and Serial No.

14-20-603-6509

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

MCELMO CREEK UNIT

8. Well Name and No.

B-13

9. API Well No.

43-037-16339

10. Field and Pool, or Exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☒ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other **PLUG & ABANDONMENT**
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

11-04-93 NOTIFIED JIM WALKER/NAVAJO EPA AND JIMMY MORRIS/BLM OF INTENT TO P & A. NU BOP.

11-07-93 ON LOCATION KEVIN SCHNIEDER/BLM, GARY YELLOWHAIR AND JIM WALKER/NAVAJO EPA. MIRU. SET CIBP AT 5300'

11-08-93 ON LOCATION KEVIN SCHNIEDER/BLM AND JIM WALKER/NAVAJO EPA. TAG CIBP AT 5300'. PEST CSG 500 LB/OK. SPOT 23 CU/FT 165' CL B CMT(1.18 YIELD 15.6 LB) CIRC HOLE TO 9 LB FR WTR MUD. SPOT 28 CU/FT PLUG SAME CMT 4445-4245. PERF 5.5 CSG W/4 JSF 1451-1455. SET CMT RET. AT 1400'. CIRC AND CMT TO SURF AROUND 5.5 CSG. TOTAL OF 329 SX CL B. CMT INSIDE OF CSG IN 400' STAGES TO SURF. 165 SX INSIDE CSG. CUT OFF WELLHEAD. RDMO

RECEIVED

DEC 06 1993

**DIVISION OF
OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Signed **Shirley Todd** **SHIRLEY TODD**

Title **ENV. & REG. TECHNICIAN**

Date **12-01-93**

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any: